
INFORMATION TECHNOLOGY

9626/04

Paper 4 Advanced Practical
SPECIMEN MARK SCHEME

For Examination from 2017

2 hours 30 minutes

MAXIMUM MARK: 110

This document consists of **12** printed pages.

Task	Answer	Marks
1	Light blue larger circle with dark blue smaller circle inside with a suitable space left for company name	1
	Circles are concentric	1
	White outline of 3 mountains inside smaller inner circle	1
	International Ski Tours fit to the path between circles	1
	Wraps approximately half of circles	1
	Text is clearly visible (1) and has an outline and a shadow (1)	2
	Two skis are present, crossed and do not overlap the larger circle	1
	Skis are layered over inner circle	1
	Skis are layered under mountains and text	1
	Resize the image to 150 pixel × 150 pixel	1
	Save the logo as a .jpg file with the file name IST_logo_ followed by Centre number_candidate number	1

Task	Answer	Marks	
2	Pixels (of different colours)	Objects (with properties)	2
	Larger – or Vector smaller (colour and position of each pixel stored)	Only properties of objects stored	2
	Lose quality/definition (blocky/pixelated)	No loss of quality/definition	2
	.bmp (only)	.svg (only)	2
	.dib, .jpeg, .gif, .tiff, .png	.cgm, .odg, .eps, .xml (not program files .psd, .cdr, .ai etc.)	2

Task	Answer	Marks
3	Logo used created above and correct frame size set	1
	Animation of logo – small to large	1
	Smooth gradual growth of logo size	1
	All three images have been used	1
	Correct text on each image in bottom right-hand corner	1
	Text on each image is clearly visible	1
	Each image is displayed for a suitable length of time	1
	Opacity of each image has been changed to create fading effects	1
	Fading of each image is suitably timed	1
	Opacity of text on each image has been changed to create fading effect	1
	Text on each image fades in time with image	1
	Animation is smooth	1
	Animation is set to play continuously (loops)	1
	File exported	1
	Suitable file format for website used with correct file name, e.g. .mp4, .flv, .fla, .mov	1

Task	Answer	Marks
4	Creates the motion between two objects or images	1
	Gives the animation a smooth appearance	1

Task	Answer	Marks
5	Customer_details.csv has been imported	1
	Customer_id set as Primary key	1
	Customer age field set as number data type	1
	Instructor_details.csv has been imported	1
	Instructor_id set as Primary key	1
	Adult and Child prices set as currency data type	1
	Adult and Child prices formatted as Euro	1
	A bookings table has been created	1
	Booking_id set as Primary key	1
	[Bookings]![Customer_id] set as lookup – Customer details appear for selection	1
	[Bookings]![Instructor_id] set as lookup – Instructor details appear for selection	1
	[Bookings]!Lesson_Time set as lookup or Booking_Times table created	1
	Customer, Instructor, Lesson_Times selection limited to list	1
	Correct times listed	1
	Lesson_Date set as Date/Time data type	1
	Lesson_Date Date/Time data type in short date format	1
	[Customer_Details]![Customer_id] to [Bookings]![Customer_id]relationship	1
	[Instructor_Details]![Instructor_id] to [Bookings]![Instructor_id]relationship	1
	A form has been created to make bookings	1
	The form has a place to select a customer	1
	Customer details appear for selection	1
	The form has a place to select an instructor	1
	Instructor details appear for selection	1
	The instructor choice is limited to the same ability as that of the customer	1
	A query for the record source has been used	1
	Query fields limited to required fields	1
	The customer names automatically display when selected	1
	The customer age automatically displays when selected	1
	The customer level automatically displays when selected	1
	The instructor name automatically displays when selected	1
	The instructor level automatically displays when selected	1
	The form has a place to enter a date	1
	The form has a list to select a booking time	1
	The booking times are limited to the times available	1
	The lesson price matching the customer age is displayed automatically	2
	The company logo is displayed on the form	1

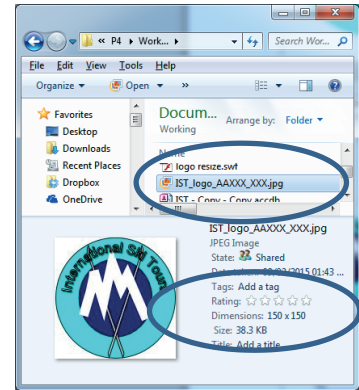
Task	Answer	Marks
5	Navigation buttons are displayed on the form	1
	Next/Previous and First/Last record buttons are displayed	1
	New and delete record buttons are displayed	1

Task	Answer	Marks
6	Logo and candidate details inserted	1
	Alert shows	1
	Alert displays count	1
	Alert displays the correct count	1
	Alert has a suitable message and spacing	1
	Count box displays results	1
	Count matches Alert display	1
	Correct count displayed	1
	A "Well done....." message is displayed when 3 correct answers	1
	The correct message is displayed	1
	The message is at the response placeholder	1
	The text Enter Draw is displayed	1
	The text Enter Draw appears at the Enter placeholder	1
	The text Enter Draw only appears if 3 correct answers	1
	"Click here...." message is displayed when <3 correct answers	1
	The correct message is displayed	1
	A hyperlink is visible	1
	The text "here" is used as the hyperlink	1
	The hyperlink reloads the page	1
	Repeated submissions do not increment the count	1
	Comment – setting count to 0	1
	Comment – declaring variables	1
	Comment – checking answers – incrementing count – blanking wrong answers	1
	Comment – Alert to display results – count entered on page	1
	Comment – Test count – display response	1

Task	Answer	Marks												
7	3 valid data types listed with valid example of each <table border="1" data-bbox="245 304 1326 609"> <thead> <tr> <th data-bbox="245 304 727 353">Data type</th> <th data-bbox="727 304 1326 353">Example</th> </tr> </thead> <tbody> <tr> <td data-bbox="245 353 727 405">Number – Integer or Floating point</td> <td data-bbox="727 353 1326 405">4, 27, 655354.2, 27.4, 5.63</td> </tr> <tr> <td data-bbox="245 405 727 456">String – Character</td> <td data-bbox="727 405 1326 456">abc, hello world a, F, 3, \$</td> </tr> <tr> <td data-bbox="245 456 727 508">Boolean</td> <td data-bbox="727 456 1326 508">True/false Y/N 1/0 –1/0</td> </tr> <tr> <td data-bbox="245 508 727 560"><i>Also Allow</i></td> <td data-bbox="727 508 1326 560"></td> </tr> <tr> <td data-bbox="245 560 727 609">Array</td> <td data-bbox="727 560 1326 609">GameScores = (124, 99, 121, 105, 132)</td> </tr> </tbody> </table>	Data type	Example	Number – Integer or Floating point	4, 27, 655354.2, 27.4, 5.63	String – Character	abc, hello world a, F, 3, \$	Boolean	True/false Y/N 1/0 –1/0	<i>Also Allow</i>		Array	GameScores = (124, 99, 121, 105, 132)	6
Data type	Example													
Number – Integer or Floating point	4, 27, 655354.2, 27.4, 5.63													
String – Character	abc, hello world a, F, 3, \$													
Boolean	True/false Y/N 1/0 –1/0													
<i>Also Allow</i>														
Array	GameScores = (124, 99, 121, 105, 132)													

Here are some examples of the tasks being worked.

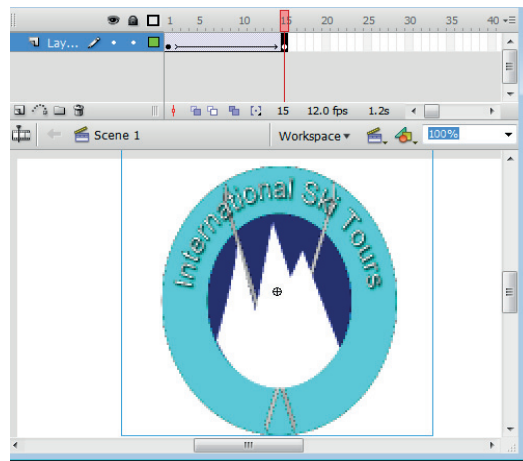
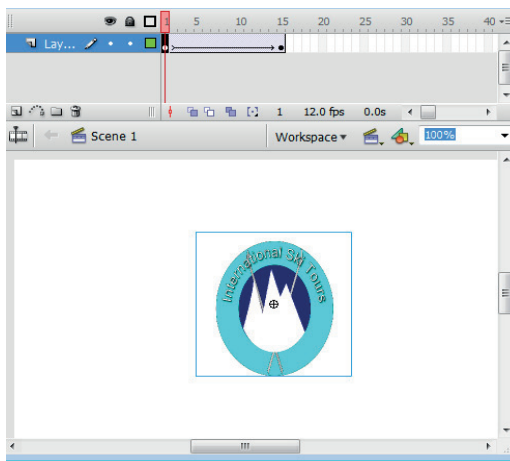
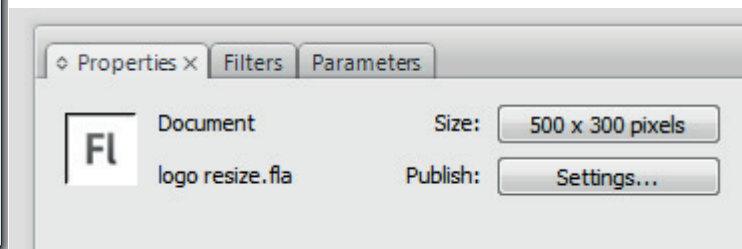
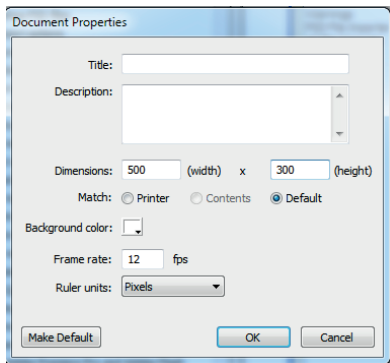
Task 1



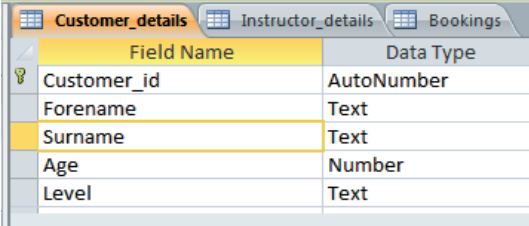
Task 3

Task 3 is marked from the playback of the animation.

EXAMPLES (WHEN USING Adobe Flash)

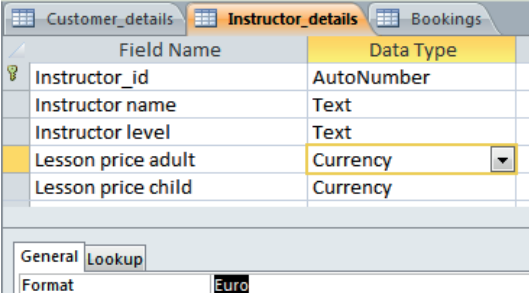


Task 5



Customer_details

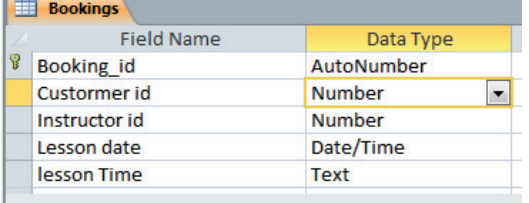
Field Name	Data Type
Customer_id	AutoNumber
Forename	Text
Surname	Text
Age	Number
Level	Text



Instructor_details

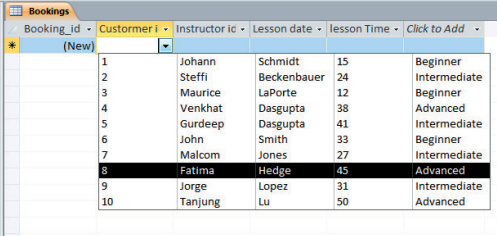
Field Name	Data Type
Instructor_id	AutoNumber
Instructor name	Text
Instructor level	Text
Lesson price adult	Currency
Lesson price child	Currency

Format: Euro



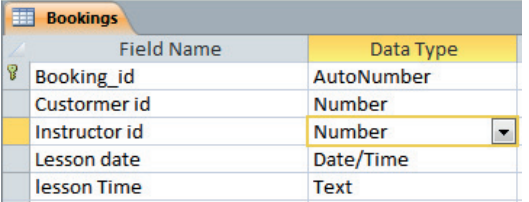
Bookings

Field Name	Data Type
Booking_id	AutoNumber
Customer id	Number
Instructor id	Number
Lesson date	Date/Time
lesson Time	Text



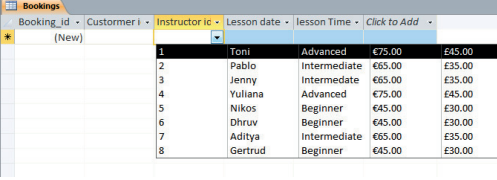
Bookings

Booking_id	Customer id	Instructor ic	Lesson date	lesson Time	Click to Add
1	Johann	Schmidt	15	Beginner	
2	Steffi	Beckenbauer	24	Intermediate	
3	Maurice	LaPorte	12	Beginner	
4	Venkhat	Dasgupta	38	Advanced	
5	Gurdeep	Dasgupta	41	Intermediate	
6	John	Smith	33	Beginner	
7	Malcom	Jones	27	Intermediate	
8	Fatima	Hedge	45	Advanced	
9	Jorge	Lopez	31	Intermediate	
10	Tanjung	Lu	50	Advanced	



Bookings

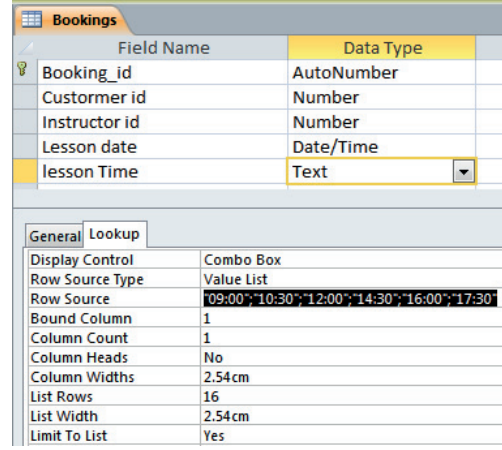
Field Name	Data Type
Booking_id	AutoNumber
Customer id	Number
Instructor id	Number
Lesson date	Date/Time
lesson Time	Text



Bookings

Booking_id	Customer id	Instructor ic	Lesson date	lesson Time	Click to Add
1	Toni	Advanced	€75.00	€45.00	
2	Pablo	Intermediate	€65.00	€35.00	
3	Jenny	Intermediate	€65.00	€35.00	
4	Vuilana	Advanced	€75.00	€45.00	
5	Nikos	Beginner	€45.00	€30.00	
6	Dhruv	Beginner	€45.00	€30.00	
7	Aditya	Intermediate	€65.00	€35.00	
8	Gertrud	Beginner	€45.00	€30.00	

Task 5 continued

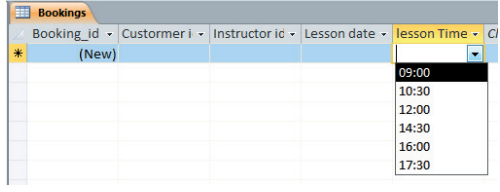


Bookings

Field Name	Data Type
Booking_id	AutoNumber
Customer id	Number
Instructor id	Number
Lesson date	Date/Time
lesson Time	Text

General | **Lookup**

Display Control	Combo Box
Row Source Type	Value List
Row Source	"09:00";"10:30";"12:00";"14:30";"16:00";"17:30"
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	Yes

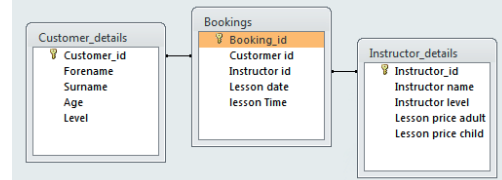


Bookings

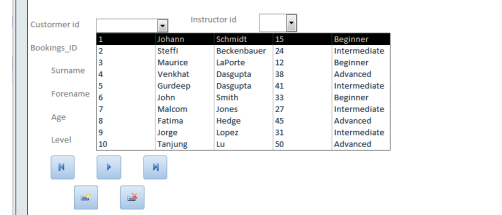
Field Name	Data Type
Booking_id	AutoNumber
Customer id	Number
Instructor id	Number
Lesson date	Date/Time
lesson Time	Text

Lookup

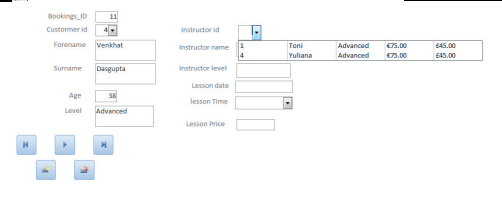
Row Source	"09:00";"10:30";"12:00";"14:30";"16:00";"17:30"
List Items	09:00 10:30 12:00 14:30 16:00 17:30



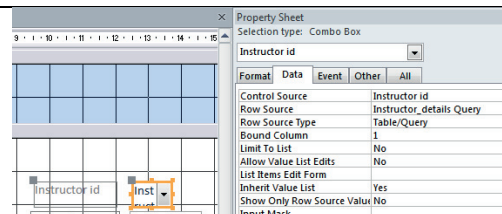
Customer_details (Customer_id, Forename, Surname, Age, Level)
Bookings (Booking_id, Customer id, Instructor id, Lesson date, lesson Time)
Instructor_details (Instructor_id, Instructor name, Instructor level, Lesson price adult, Lesson price child)



Customer id	Instructor id	Booking_ID	Surname	Forename	Age	Level
1	Johann Schmidt	15	Beginner			
2	Steffi Beckenbauer	24	Intermediate			
3	Máireasa LaPorte	12	Beginner			
4	Venkhat Dasgupta	38	Advanced			
5	Gurdeep Dasgupta	41	Intermediate			
6	John Smith	33	Beginner			
7	Malcom Jones	27	Intermediate			
8	Fatima Hedge	45	Advanced			
9	Jorge Lopez	31	Intermediate			
10	Tanjung Lu	50	Advanced			



Bookings_ID: 11
 Customer id: 4
 Forename: Venkhat
 Surname: Dasgupta
 Age: 38
 Level: Advanced
 Instructor id: 1
 Instructor name: Tani Yullana
 Instructor level: Advanced
 Lesson date: [Date Picker]
 Lesson Time: [Time Picker]
 Lesson Price: [Text Box]



Property Sheet
 Selection type: Combo Box
 Field: Instructor id

Format	Data	Event	Other	All
Control Source	Instructor id			
Row Source	Instructor_details Query			
Row Source Type	Table/Query			
Bound Column	1			
Limit To List	No			
Allow Value List Edits	No			
List Items Edit Form				
Inherit Value List	Yes			
Show Only Row Source Value	No			
Input Mask				

Task 5 continued

Instructor_details Query

Instructor_details

- Instructor_id
- Instructor name
- Instructor level
- Lesson price adult
- Lesson price child

Field:	Instructor_id	Instructor name	Instructor level
Table:	Instructor_details	Instructor_details	Instructor_details
Sort:			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			[Forms]!Bookings]!Le
or:			

Bookings_ID

Customer id

Forename

Surname

Age


Level

Instructor id <input type="text" value="5"/>	Instructor id <input type="text" value="5"/>
Instructor name <input type="text" value="Nikos"/>	Instructor name <input type="text" value="Nikos"/>
Instructor level <input type="text" value="Beginner"/>	Instructor level <input type="text" value="Beginner"/>
Lesson date <input type="text" value="November 2017"/>	Lesson date <input type="text"/>
Lesson Time <input type="text" value="09:00"/>	Lesson Time <input type="text" value="09:00"/>
Lesson Price <input type="text" value="12:00"/>	Lesson Price <input type="text" value="12:00"/>

Bookings_ID <input type="text" value="71"/>	Customer id <input type="text" value="1"/>	Instructor id <input type="text" value="5"/>
Forename <input type="text" value="Johann"/>	Instructor name <input type="text" value="Nikos"/>	Instructor level <input type="text" value="Beginner"/>
Surname <input type="text" value="Schmidt"/>	Lesson date <input type="text" value="02/11/2017"/>	Lesson Time <input type="text" value="12:00"/>
Age <input type="text" value="15"/>	Lesson Price <input type="text" value="€30.00"/>	
Level <input type="text" value="Beginner"/>		

Instructor id	<input type="text" value="Inst"/>
Instructor name	<input type="text" value="Instructor na"/>
Instructor level	<input type="text" value="Instructor level"/>
Lesson date	<input type="text" value="Lesson date"/>
Lesson Time	<input type="text" value="lesson Time"/>
Lesson Price	<input type="text" value="=IIf([Age]>=18,[Lesson price adult],[Lesson price child])"/>

International Ski Tours Bookings Form



Bookings_ID <input type="text" value="71"/>	Instructor id <input type="text" value="5"/>
Customer id <input type="text" value="1"/>	Instructor name <input type="text" value="Nikos"/>
Forename <input type="text" value="Johann"/>	Instructor level <input type="text" value="Beginner"/>
Surname <input type="text" value="Schmidt"/>	Lesson date <input type="text" value="02/11/2017"/>
Age <input type="text" value="15"/>	Lesson Time <input type="text" value="12:00"/>
Level <input type="text" value="Beginner"/>	Lesson Price <input type="text" value="€30.00"/>

Navigation buttons: Home, Back, Forward, Refresh, Print, Save

Task 6

Solution for information only – task is marked from outcomes on the webpage.

```
<SCRIPT LANGUAGE="JavaScript">
// set count to zero
var c=0;

//declare function
function myFunction() {

// declare and initialise answer variables

var first=Number(Answer1.value);
var second=Number(Answer2.value);
var third=Number(Answer3.value);

//declare and initialise hyperlink variable
var str = "here";
var result = str.link("IST.html");

//test answers
if(first=="2"){c++} else {Answer1.value=""}

if(second=="3") {c++} else {Answer2.value=""}

if (third=="2") {c++} else {Answer3.value=""}

//Display Alert with count of correct answers

window.alert (c + " "+"correct answers");


//Display number of correct answers on page
count.value=c;

//Test Results
if (c==3)

// Display Conditional message and hyperlink
{
document.getElementById("response").innerHTML = "Well done.";}
else
{document.getElementById("response").innerHTML = "Click "+ result + " to try
again";
}
if (c==3)
{
//Display Final text
document.getElementById("Enter").innerHTML =
"Enter Draw";
}
c=0
}

</SCRIPT>
```

Task 6 continued

Insert your name, Centre number and candidate number here.	International Ski Tours	
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JavaScript Alert ×

0 correct answers

Number of correct answers

Click [here](#) to try again

JavaScript Alert ×

3 correct answers

Number of correct answers

Well done

Prize Draw Quick Quiz

Enter Draw

Enter your choices 1,2,or 3 in the answer boxes